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MACKIE, G. B. The Study of Land-Forms in the School. Diagrams. *Scott. Geogr. Mag.*, Vol. 31, 1915, No. 1, pp. 23-34.

MILLER, G. J. Essentials of Modern Geography and Criteria for their Determination. *Journ. of Geogr.*, Vol. 13, 1915, No. 5, pp. 129-135.

STEVENSON, J. J. Geological Methods in Earlier Days. *Pop. Science Monthly*, Vol. 86, 1915, No. 1, pp. 25-32.

## NEW MAPS

EDITED BY THE ASSISTANT EDITOR

*For system of listing maps see p. 75 of this volume*

MAPS ISSUED BY UNITED STATES GOVERNMENT BUREAUS

U. S. GEOLOGICAL SURVEY

*Topographic Sheets*

*(Including Combined and Special Topographic Maps)*

**Alaska.** Reconnaissance Map of Chitina Quadrangle, Copper River Region, Alaska. Surveyed in 1898, 1900, 1902, 1905, 1908, 1911 and 1913. 1:250,000. 62° - 60° N.; 146°20' - 142°0' W. Contour interval, 200 ft. 1914.

[This is a new edition, issued separately, of the map which was originally published as Pl. 1 of the *U. S. G. S. Bull.* 374 in 1909. The additional topography shown includes a large area of the Chugach Mts. east of the transverse valley of the Copper River and a strip along the coast for 70 miles east of Controller Bay. Greater care is used in differentiation between surveyed and unsurveyed sections of the map, various sections whose contours were drawn out in full lines on the first edition now reverting to the broken lines indicating probable topography, unsurveyed.]

**California.** (a) Avena Quadrangle. Surveyed in 1912. 1:31,680. 37°52'30" - 37°45'0" N.; 121°7'30" - 121°0'10" W. Contour interval 5 ft. Edition of Dec. 1914.

(b) Burnham Quad. Surveyed in 1912. 1:31,680. 38°0'0" - 37°52'30" N.; 121°15'0" - 121°7'30" W. Interval 5 ft. Edit. of Dec. 1914.

(c) Lathrop Quad. Surveyed in 1912. 1:31,680. 37°52'30" - 37°45'0" N.; 121°22'30" - 121°15'0" W. Interval 5 ft. Edit. of Jan. 1915.

(d) Manteca Quad. Surveyed in 1912. 1:31,680. 37°52'30" - 37°45'0" W.; 121°15'0" - 121°7'30" W. Interval 5 ft. Edit. of Dec. 1914.

(e) Peters Quad. Surveyed in 1912. 1:31,680. 38°0'0" - 37°52'30" N.; 121°7'30" - 121°0'0" W. Interval 5 ft. Edit. of Jan. 1915.

(f) Union Island Quad. Surveyed in 1911-1912. 1:31,680. 37°52'30" - 37°45'0" N.; 121°30'0" - 121°22'30" W. Interval 5 ft. Edit. of Nov. 1914.

(g) Vernalis Quad. Surveyed in 1912. 1:31,680. 37°45'0" - 37°37'30" N.; 121°22'30" - 121°15'0" W. Interval 5 ft. Edit. of Jan. 1915.

(h) Walker Creek Quad. Surveyed in 1904. 1:31,680. 39°45'0" - 39°37'30" N.; 122°22'30" - 122°15'0" W. Interval 5 ft. Preliminary edition, Nov. 1914.

[These sheets belong to the two-inches-to-the-mile series of the Sacramento-San Joaquin Valley. All except the last sheet are contiguous sheets representing the region lying to the south and east of Stockton. The area of the last sheet (h), on the eastern third of which only topography is shown, lies at the extreme northern end of the valley.]

**Colorado.** Monument Butte Quad. Surveyed in 1912. 1:62,500. 40°30' - 40°15' N.; 107°45' - 107°30' W. Interval 50 ft. Edit. of Jan. 1915.

[The territory here shown with greater accuracy has already been published, in 1910, on half the scale, on the Danforth Hills special sheet, 1:125,000. With

the sheets Meeker and Axial (listed respectively under "Colorado" in the *Bull.*, Vol. 46, 1914, p. 554, and Vol. 47, 1915, p. 156), nearly three-quarters of this reconnaissance map have been replaced by final surveys.]

**Idaho.** Lanes Creek Quad. Surveyed in 1911-1912. 1:62,500. 43°0' - 42°45' N.; 111°30' - 111°15' W. Interval 50 ft. Edit. of Jan. 1915.

**Illinois.** Gillespie Quad. Surveyed in 1912. 1:62,500. 39°15' - 39°0' N.; 90°0' - 89°45' W. Interval 20 ft. Edit. of Jan. 1915.

**Montana.** (a) Spring Valley Quad. Surveyed in 1909-1910. 1:62,500. 48°30' - 48°15' N.; 106°15' - 106°0' W. Interval 20 ft. Edit. of Jan. 1915.

(b) Topographic Map of Glacier National Park, Montana. Surveyed in 1900-1904 and 1907-1912. 1:125,000. 49°0' - 48°13' N.; 114°30' - 113°10' W. Interval 100 ft. Edition of Dec. 1914. Also accompanies, as Pl. xiii, "The Glacier National Park: A Popular Guide to Its Geology and Scenery" by M. R. Campbell, *U. S. G. S. Bull.* 600, 1914.

[This is a new edition of the special map of Glacier National Park, first published in 1911 (see, under "Montana (b)," *Bull.*, Vol. 44, 1912, p. 398). The innovation is that the usual representation of contours is supplemented by shading. This greatly heightens the plasticity of the map—how greatly can be seen by comparing it with the first edition. On this the contours, while admirably portraying the glacial topography, do not succeed in bringing out the mountain massifs, although due to their closeness they have, in such a case as this, their maximum force of expression. But, as has frequently been pointed out in this department, contours alone are not able to give a synoptical view of relief. This innovation therefore, while not quite attaining the excellence of A. O. Wheeler's similar map of the Selkirks along the Canadian Pacific Railway or the admirable maps of the Swiss school—sometimes there is a lack of firmness in the handling of the crayon and the shading occasionally has a smudgy appearance—is to be welcomed as opening up a new and important field of cartographic expression in our foremost government map-issuing bureau.

The publication, since the first edition, of the Marias Pass and Nyack sheets (see under "Montana," *Bull.*, Vol. 45, 1913, p. 955, and Vol. 46, 1914, p. 954) has been made use of, so that now topography covers the whole sheet with the exception of the rectangle in the lower left-hand corner limited by the parallels of 48°30' and 48°13' and the meridians of 114°30' and 114°0'. The shading has been applied, however, only within the administrative area of the park. In the representation of the glaciers it is to be regretted that, for this region for which they are so characteristic, the Survey had not already adopted its present adequate representation by blue contours instead of the rather stiff and sketchy manner then prevailing. However, this is an improvement which, we may hope, will spread in the next edition from the diminutive Stanton and Grant Glaciers (copied from the recent Nyack sheet) to the whole glacier area of the map. In the edition accompanying *U. S. G. S. Bull.* 600 the Lewis overthrust fault is shown.]

**New York.** Corning Quad. Surveyed in 1912. 1:62,500. 42°15' - 42°0' N.; 77°15' - 77°0' W. Interval 20 ft. Edit. of Nov. 1914.

**Ohio.** (a) Fredericktown Quad. Surveyed in 1912. 1:62,500. 40°30' - 40°15' N.; 82°45' - 82°30' W. Interval 20 ft. Edit. of Jan. 1915.

(b) Loudonville. Surveyed in 1912. 1:62,500. 40°45' - 40°30' N.; 82°15' - 82°0' W. Interval 20 ft. Edit. of Dec. 1914.

(c) Perrysville. Surveyed in 1912. 1:62,500. 40°45' - 40°30' N.; 82°30' - 82°15' W. Interval 20 ft. Edit. of Jan. 1915.

[On map (c) woods are shown in green.]

**Vermont.** Milton Quad. Surveyed in 1913. 1:62,500. 44°45' - 44°30' N.; 73°15' - 73°0' W. Interval 20 ft. Edit. of Jan. 1915.

#### Other Separate Maps

**United States.** [Six base maps of various states, 1:500,000]: (1) State of Montana. Compiled in 1913. In 2 sheets. (2) (States of New Hamp-

shire and Vermont.) Compiled in 1911-1914. (3) State of Oregon. Compiled in 1914. (4) State of Virginia. Compiled in 1914 in cooperation with the State of Virginia, Geological Survey, Thomas L. Watson, Director. (5) State of West Virginia. Compiled in 1914. (6) (State of Wyoming.) Compiled in 1913. All states compiled under the direction of R. B. Marshall, Chief Geographer, by A. F. Hassan, Cartographer.

[These maps belong to the important series of black-and-white outline state maps being issued by the U. S. Geological Survey. The addition of these maps brings the total of states published to date to 30. Vermont has already been published separately. For previous states issued and detailed comment see under "United States" and under "Southern New England" and "Washington," *Bull.*, Vol. 46, 1914, pp. 713-714 and p. 955.]

**United States.** United States: Oil and Gas Fields in 1913. By David T. Day and others. 1:2,500,000. 52° - 24° N.; 129° - 65° W. 5 colors. With inset: Alaska. [1:11,000,000]. 3 colors.

[On the standard base map of the United States are shown, in colors, the areas of defined oil and gas pools and, by symbols, differentiation is made between productive (1) oil and (2) gas localities and (3) noteworthy occurrences of either without present production. In addition are shown the trunk oil pipe lines, with the names of the companies controlling them. This brings out forcibly their remarkable extent, reaching continuously all the way from the Beaumont field on the Gulf coast of Texas via Kansas City and Chicago to New York, with an isolated system between San Francisco and Los Angeles. It seems as if the same information might have been conveyed on a less wieldy map, say, the base map on the scale of 1:7,000,000.]

#### U. S. COAST AND GEODETIC SURVEY

**Philippine Islands.** (a) Philippine Islands, Southwestern Part. [1:800,000]. 11°40' - 4°20' N.; 116°34' - 122°9' E. 2 colors. Chart No. 4707. Feb. 1915. 50 cts.

(b) Mayo Bay to Cateel Bay, East Coast of Mindanao. [1:100,000]. 7°54' - 6°59' N.; 125°10' - 126°50' E. 1 color. Chart No. 4626. Jan. 1915. 40 cts.

#### EUROPE

**Europe.** Waldkarte von Europa. Entworfen von Dr. Joh. Riedel. 1:15,000,000. 75° - 30° N.; 43° W. - 85° E. 9 colors. Accompanies "Die Verbreitung des Waldes in Europa" by J. Riedel, *Petermanns Mitt.*, Vol. 60, II, 1914, Sept., pp. 128-131.

[Eight percentages of forest covering are distinguished. While in Germany and Austria-Hungary these are generalized, for the remaining countries they are based on administrative divisions, a treatment which, especially in the case of Russia, militates against reflecting the natural condition. The Iberian and Balkan peninsulas (except for Servia and Bulgaria in their pre-Balkan war boundaries) are not included in the representation.]

#### POLAR

**Arctic.** Arbeiten der hydrographischen Expedition in das Nördliche Eismeer im Jahre 1913 unter Kapt. Wilkizki. Mean scale 1:600,000. 82° - 64° N.; 94° E. 167° W. 7 colors. Accompanies note on "Kapt. A. Wilkizkis Forschungen im Sibirischen Eismeer" by H. Wichmann, *Petermanns Mitt.*, Vol. 60, II, 1914, Sept., p. 138.

[Map of the Siberian coast between Cape Chelyuskin and East Cape showing the surveys made on the expedition under Capt. Vilkitski on which new land was discovered north of Cape Chelyuskin. This new land, Emperor Nicholas II Land, is here shown as two separate masses instead of one, as on the previously published approximate maps. The present map is based on one furnished by Capt. Vilkitski himself. Besides showing the track of his vessels, the various sections of the coast are distinguished according to the dates of their

survey. Four periods are differentiated: (1) surveys of 1734-1742 and 1821-23, as shown on the 1874 edition of Chart No. 229 of the Russian Hydrographic Office; (2) surveys of 1882-1910; (3) surveys of 1911-12; (4) surveys of the 1913 expedition. The last relate to the eastern coast of the Taimyr Peninsula, in addition to that of Nicholas II Land, and to Chaun and Kolyuchin Bays.]

## EDUCATIONAL

**North and South America.** [Two wall maps:] (1) The Graphic Relief Map: North America. Designed and drawn by Georg Thorne-Thomsen. 1:6,336,000. 80° - 3° N.; 175° - 20° W. 3 colors. (2) The Graphic Relief Map: South America. Designed and drawn by Georg Thorne-Thomsen. 1:6,336,000. Printed by Edwards & Deutsch Litho. Co., Chicago; published by A. J. Nystrom & Co., Chicago, 1914. Cloth-backed, with roller at top and bottom, \$4.00 each.

[These two wall maps belong to a series of six, containing, in addition, Africa and Eurasia on the same scale and the United States and Europe in 1:3,168,000. Their main feature is the representation of relief in a way to give the effect of a model. This is attained by means of gray stippling decreasing in density with increasing altitude and by means of a strongly shaded representation of mountain ranges. The result is, on the whole, a bold differentiation between mountainous and non-mountainous regions. In the latter the broader areas of different altitude are hardly, however, satisfactorily brought out by the stippling: there is practically no distinction, for instance, between the Appalachian Plateau and the low Prairie Region. Absolute differences of elevation are, after all, best represented by layer tints; but as the author, in an informational circular, expresses his disapproval of this method because of the "elaborate instruction" required for pupils to learn the key, the judgment of his maps must be restricted to the success with which they give the impression of relief models. It is comparison with photographs of such admirable models as those made by the late Edwin E. Howell which bring out the weakness of the present series: too stiff a treatment of relief. There is too great a predominance of the ridge form in the representation of mountains and too few indications of broad uplifts; the general effect is of isolated chains rising abruptly from their surroundings. This form prevails even in such denudation masses as the Guiana Highlands, which have the appearance of young folded mountains. The mountain ranges, too, are strongly suggestive of the perspective drawings of medieval maps—a somewhat belated method in a day when perpendicular projection of all elements (which does not, of course, exclude side illumination to bring out relief) dominates the cartographic field. Bordering the continent the continental shelf is distinguished, but as its tint differs only slightly from the rest of the ocean, it can hardly be seen at a distance of fifteen feet. A few errors in content may be noted: the ranges of the upper part of the Alaska Peninsula and those of eastern Honduras and Nicaragua run counter to their actual trend; the Alaska Range, with the characteristic sweep of its arc, is practically unrepresented in its culminating portion, while the Endicott Range is entirely absent. The maps of the series are published without and with names; in the latter case there is a judicious restriction to a few. On the map of South America Callao and Aconcagua are misspelled.]

**Morocco.** [Physical wall map of] Maroc, par Maurice Fallex, Professeur au Lycée Louis-le-Grand. 1:1,000,000. 36½° - 28° N.; 12¾° W. - ¼° E. 10 colors. With four insets: (1) Carte Géologique d'après Louis Gentil. 1:3,000,000. 37½° - 28° N.; 11° W. - ¼° E. 11 colors. (2) Tanger. 1:10,000. 3 colors. (3) Fez. 1:30,000. 2 colors. (4) Marrakech. 1:30,000. 2 colors. Librairie Ch. Delagrave, Paris.

[Good physical wall map whose main value lies in its representing the region on a much larger scale than usually available. Relief is represented in four hypsometric tints and shading. Railroads, roads and French steamship lines are shown in red. The nomenclature is somewhat too copious for educational purposes.]

## Other Maps Received

## NORTH AMERICA

## CANADA

**Alberta.** Map showing [grain] elevators in Manitoba, Saskatchewan and Alberta. 25 mi. to 1 in. Dept. of the Interior, Ottawa, 1915.

Map showing gauging stations in Alberta and Saskatchewan. 35 mi. to 1 in. Accompanying "Report of Progress of Stream Measurements for the calendar year 1913."

**British Columbia.** Sheet Map, British Columbia. 2 mi. to 1 in. Fernie Sheet. Surveyor General's Office, Victoria, B. C., 1913.

Degree Series, British Columbia. 2 mi. to 1 in. Windermere sheet. Surveyor General's Office, Victoria, B. C., 1914.

**Manitoba-Saskatchewan-Alberta.** Map of Manitoba, Saskatchewan and Alberta, showing the number of quarter-sections available for homestead entry in each township, also the pre-emption and purchased homestead area as defined by the Dominion Lands Act, 1908. 35 mi. to 1 in. Dept. of Interior, Ottawa, 1915.

**Ontario.** Standard Topographical Map. 1:250,000. Sheet: Manitoulin, Ontario. Dept. of the Interior, Ottawa, 1914.

## UNITED STATES

**Alaska.** Post route map of the territory of Alaska showing post offices, with intermediate distances on mail routes in operation on the 1st of Oct. 1914. 40 mi. to 1 in. Post Office Department, Washington, 1914.

**Colorado.** Map of Colorado showing all railroads. 20 mi. to 1 in. Railroad Commission, Denver, 1911.

**Illinois.** Tillotson's pocket maps and street guide of Chicago and suburbs, of Highland Park, Glencoe, Winnetka, Kenilworth, Wilmette, Evanston, Franklin Park, Maywood, River Forest, Oak Park, Riverside, La Grange, Morgan Park, Indiana Harbor and Gary, Indiana. 3 in. to 1 mi. M. D. Tillotson, Chicago, 1909.

**Michigan, etc.** Maps of Michigan, Minnesota, North Dakota, South Dakota, Wisconsin and Counties served by the "Soo Line." Various scales. The Minneapolis, St. Paul & Ste. Marie Ry. [New York Office], 1913.

**United States.** [Maps by American Automobile Association]. 1, General map of transcontinental routes with principal connections, 110 mi. to 1 in.; 2, Main traveled routes through New York State, 17 mi. to 1 in.; 3, Routes between the northern states, middle western states and the South, 75 mi. to 1 in.; 4, Main traveled routes through Maryland-Virginia, 15 mi. to 1 in.; 5, Main traveled routes through Pennsylvania, 9 mi. to 1 in.; 6, Special Hudson River district, 5½ mi. to 1 in. American Automobile Association, New York, 1914.

**United States.** [36] Post route maps showing post offices, with intermediate distances on mail routes in operation on the 1st of Oct. 1914: (1) Alabama, 8½ mi. to 1 in. (2) Arizona, 12 mi. to 1 in. (3) Arkansas, 9 mi. to 1 in. (4) California, 10 mi. to 1 in. (5) Colorado, 5 mi. to 1 in. (6) Florida, 10 mi. to 1 in. (7) Georgia, 8 mi. to 1 in. (8) Illinois, 8½ mi. to 1 in. (9) Indiana, 7 mi. to 1 in. (10) Iowa, 7 mi. to 1 in. (11) Kansas, 10 mi. to 1 in. (12) Kentucky, 7 mi. to 1 in. (13) Louisiana, 9 mi. to 1 in. (14) Maine, 6½ mi. to 1 in. (15) Maryland, 5 mi. to 1 in. (16) Massachusetts, 5 mi. to 1 in. (17) Michigan, 9 mi. to 1 in. (18) Minnesota, 10 mi. to 1 in. (19) Mississippi, 8 mi. to 1 in. (20) Missouri, 8½ mi. to 1 in. (21) Montana, 12 mi. to 1 in. (22) New Hampshire, 5 mi. to 1 in. (23) New Jersey, 4 mi. to 1 in. (24) New Mexico, 12 mi. to 1 in. (25) New York, 5 mi. to 1 in. (26) North Carolina, 8 mi. to 1 in. (27) North Dakota, 10 mi. to 1 in. (28) Ohio, 7 mi. to 1 in. (29) Oklahoma, 10 mi. to 1 in. (30) Oregon, 10 mi. to 1 in. (31) Pennsylvania, 5 mi. to 1 in. (32) South Dakota, 10 mi. to 1 in.

1 in. (33) Texas, 12 mi. to 1 in. (34) Utah, 10 mi. to 1 in. (35) Virginia, 7 mi. to 1 in. (36) Washington, 9 mi. to 1 in. Post Office Department, Washington, 1914.

**Virginia.** Map of Fairfax County, Virginia. Compiled by Columbus D. Choate. [1:576,000] Columbus D. Choate, Herndon, Va., 1911.

#### CENTRAL AMERICA AND WEST INDIES

**Panama Canal Zone.** Post route map of the Canal Zone (Isthmus of Panama) showing post offices, with intermediate distances on mail routes in operation on the 1st of Oct. 1914. 1½ mi. to 1 in. Post Office Dept., Washington, 1914.

Isthmian Canal Commission. Chart no. 1 of the Panama Canal, from Limon Bay to Mile 29. Chart no. 2, from Mile 29 to Panama Bay. Projected from trigonometrical surveys made by the Isthmian Canal Commission 1904-1914. 1:40,000. [Isthmian Canal Commission, Washington, 1914. Obtainable from U. S. Hydrographic Office at 20 cents each.]

**Porto Rico.** Post route map of Porto Rico showing post offices, with intermediate distances on mail routes in operation on the 1st of Oct. 1914. 5 mi. to 1 in. Post Office Dept., Washington, 1914.

#### SOUTH AMERICA

**Argentina.** Provincia de Salta. 1:25,000. [7 sheets]: Salta; Las Islas; Cerrillos; G'ral Alvarado; La Caldera; San Lorenzo; San José. [From Instituto Geogr. Militare, Buenos Aires, 1914.] 1912.

**Brazil.** Mapa geral do Brasil. Segunda edição popular do *Jornal do Brasil*. 1:5,000,000. *Jornal do Brasil*, Rio de Janeiro, 1913.

Schema da carta do Brazil mostrando o itinerario da Expedição Roosevelt-Rondon. 1:15,000,000. Accompanying "Through the Brazilian Wilderness" by Theodore Roosevelt. 1914.

**Paraguay.** Mapa de la República del Paraguay, levantado por Félix Daumas Ladouce. 1:1,200,000. Inset: Ciudad de Asuncion, 1:1,500. [Gift from the Honorable Minister from Paraguay, Washington, D. C.], 1906.

**Peru.** Weberbauer: Pflanzenwelt der peruanischen Anden. 1:10,000,000. Accompanying "Die Vegetation der Erde, XII: Die Pflanzenwelt der Peruanischen Anden" von Prof. Dr. A. Weberbauer. 1911.

#### AFRICA

**Anglo-Egyptian Sudan.** Africa. 1:1,000,000. Sheet North-B-36, Mongalla. Geographical Section, General Staff, London, 1914.

**Eritrea.** Carta della Colonia Eritrea. 1:1,500,000. Ministero degli Affari Esteri, Direzione centrale degli Affari Coloniali. [Roma], 1912.

Commissariato dell' Acchelè-Guzai. 1:600,000. Ministero delle Colonie. [Rome, 1913].

Commissariato di Assab. 1:800,000. Ministero delle Colonie [Rome, 1913].

Commissariato di Cheren. 1:600,000. Ministero delle Colonie [Rome, 1913].

Commissariato del Gasc et Setit. 1:800,000. Ministero delle Colonie [Rome, 1913].

Commissariato dell' Hamasen. 1:500,000. Ministero delle Colonie [Rome, 1913].

Commissariato di Massaua. 1:800,000. Ministero delle Colonie [Rome, 1913].

Commissariato del Seraè. 1:600,000. Ministero delle Colonie [Rome, 1913].

**Italian Somaliland.** Somalia Italiana. Regioni di nuova occupazione. 1:2,500,000. Ministero delle Colonie [Rome], 1914.

**Libya.** Commissariato del Barca. 1:800,000. Ministero delle Colonie. [Roma], [1913].

Carta dimostrativa della Cirenaica. 1:1,000,000. Ministero delle Colonie [Rome], 1914.

Carta del Regno d'Italia e della Libia. 1:2,500,000. La Follia di New York, New York [1914].

Carta dimostrativa delle rovine di Zuagha (Sabratha). 1:12,500. Ministero delle Colonie [Rome], 1914.

**Madeira.** General map of the Island of Madeira. 1:100,000. Accompanying "Tourist's Guide to the Island of Maderia," compiled by C. A. Power, 1914.

**Uganda.** Routenskizze der Rudolf Kmunke'schen Expedition in Uganda (Zentralafrika), Oktober 1911-April 1912. 1:760,000. Accompanying Rudolf Kmunke: "Quer Durch Uganda, eine Forschungsreise in Zentralafrika 1911-1912," 1913.

Karte des Kraters vom Berg Elgon in Uganda. Photogrammetrisch aufgenommen von Architekt Rudolf Kmunke auf seiner Forschungsreise Oktober 1911-April 1912. 1:40,000. Accompanying Rudolf Kmunke: "Quer durch Uganda, eine Forschungsreise in Zentralafrika 1911/1912," 1913.

[Reviewed under "Uganda" in *Bull.*, Vol. 45, 1913, p. 877.]

**Union of South Africa.** Index to the Geological map of the Union of South Africa. 1:3,000,000. Accompanying Part V, Annual Reports for 1913, Geological Survey of Union of South Africa, 1914.

Portions of Barberton and Carolina Districts, Transvaal. 2½ mi. to 1 in. Accompanying Part V, Annual Reports for 1913, Geological Survey of Union of South Africa. 1914.

## ASIA

**China.** Geology of the country around Yünnan-Fu. 1 in. to 4 mi. Accompanying "Records of the Geological Survey of India," Vol. XLIV, Part 2. 1914.

**Dutch East Indies.** Java en Madoera. Aangevende den stand der invoering van de nieuwe landrente-regeling. 1:1,000,000. Accompanying "Jaarverslag van den Topographischen Dienst in Nederlandsch-Indië over 1913." Deel II.

**India.** Map of Mysore, showing the actual annual rainfall for 1912. 15 mi. to 1 in. Accompanying "Report on Rain-Fall Registration in Mysore for 1912" by N. V. Iyengar.

**Korea.** Map of Chosen (Korea). 1:2,400,000. Accompanying "Annual Report on Reforms and Progress in Chosen (Korea), 1911-1912."

Geological map of Korea state. 1 in. to 4 mi. Accompanying "Records of the Geological Survey of India," Vol. XLIV, Part 3, 1914.

Plan of Jinsen (Chemulpo) Harbour. 1:6,000. Accompanying "Annual Report on Reforms and Progress in Chosen (Korea), 1911-1912."

Plan of Fusan Harbour. 1:9,000. Accompanying "Annual Report on Reforms and Progress in Chosen (Korea), 1911-1912."

**Philippine Islands.** Post route map of the Philippine Islands showing post offices, with intermediate distances on mail routes in operation on the 1st of Oct. 1914. 9 mi. to 1 in. Post Office Dept., Washington, 1914.

## AUSTRALASIA AND OCEANIA

**Australia.** Relative cost of living (Nov. 1913) in relation to distribution of population. [1:18,000,000]. Accompanying "Official Year Book of the Commonwealth of Australia," no. 7. 1914.



Map of New South Wales [showing minerals]. 64 mi. to 1 in. Accompanying "Official Year Book of New South Wales, 1913."

Principal occurrences in South Australia of [19 enumerated minerals]. 48 mi. to 1 in. Accompanying "Annual Report of the Government Geologist [of South Australia]," 1914.

**Hawaii-Samoa-Guam.** Post route map of Hawaii, Samoan Islands, and Guam showing post offices, with intermediate distances on mail routes in operation on the 1st of Oct. 1914. 9 mi. to 1 in. Post Office Dept., Washington, 1914.

**Mariana Islands.** Insel Rota. 1:100,000. Accompanying *Deutsche Rundschau für Geographie*, Vol. 37, 1914/15, No. 4.

**Tasmania.** Map of Tasmania. 8 mi. to 1 in. Surveyor General's Office, Hobart [1913?].

## EUROPE

**Austria.** G. Freytags Wiener Bezirksplankarten. XXI. Bezirk, Floridsdorf. 1:15,000. Freytag & Berndt, Wien [1914].

**British Isles.** Bacon's map of the Isle of Wight. 1 in. to 1 mi. G. W. Bacon & Co., London [1914].

Orographical map of Scotland. Reduced from the Ordnance Survey by J. G. Bartholomew, LL.D. 1:253,440. 4 sheets. John Bartholomew & Co., Edinburgh [1914].

**Europe.** Philips' contour war map of Europe. 1:4,000,000. George Philip & Son, Ltd., London [1914].

Map of Central Europe. 33½ mi. to 1 in. War College Division, General Staff, Washington, Aug. 1914.

Bartholomew's General War Map of Europe and the Mediterranean. 86 mi. to 1 in. John Bartholomew & Co., Edinburgh [1914].

Bartholomew's orographical map of Central Europe, showing political boundaries. 1:2,000,000. John Bartholomew & Co., Edinburgh, 1914.

[The countries bordering the North and Baltic Seas, showing naval stations and fortified towns.] [44 mi. to 1 in.]. G. W. Bacon & Co., London, 1914.

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